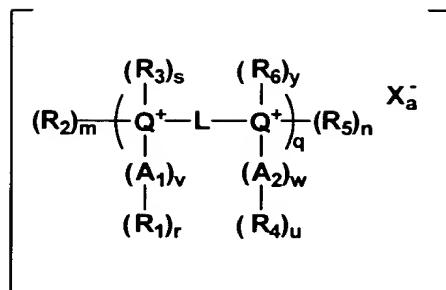


AI  
CONT



wherein

[Q is selected from the group consisting of N, O and S;]

L is C, CH, (CH<sub>2</sub>)<sub>i</sub>, or {(CH<sub>2</sub>)<sub>i</sub> - Y - (CH<sub>2</sub>)<sub>j</sub>}<sub>k</sub>, wherein Y is selected from the group consisting of CH<sub>2</sub>, an ether, a polyether, an amide, a polyamide, an ester, a sulfide, a urea, a thiourea, a guanidyl, a carbamoyl, a carbonate, a phosphate, a sulfate, a sulfoxide, an imine, a carbonyl, and a secondary amino group and wherein Y is optionally substituted by -X<sub>1</sub>-L'-X<sub>2</sub>-Z or -Z;

R<sub>1</sub> - R<sub>6</sub>, independently of one another, are selected from the group consisting of H, -(CH<sub>2</sub>)<sub>p</sub>-D-Z, an alkyl, an alkenyl, an aryl, and an alkyl or alkyl ether optionally substituted by one or more of an alcohol, an aminoalcohol, an amine, an amide, an ether, a polyether, a polyamide, an ester, a mercaptan, an alkylthio, a urea, a thiourea, a guanidyl, or a carbamoyl group, and wherein at least one of R<sub>1</sub>, R<sub>3</sub>, R<sub>4</sub> and R<sub>6</sub> is a straight chain or branched, cyclic, alkyl, alkenyl, alkynyl or aryl group having from about 6 to about 64 carbon atoms; and R<sub>1</sub> and R<sub>4</sub> or R<sub>3</sub> and R<sub>6</sub> may optionally be covalently linked with each other, with Y or with L when L is C or CH to form a cyclic moiety;

SUBS  
Cont

A1  
Cont.

[Z is selected from the group consisting of amine, spermiyl, carboxyspermiyl, guanidyl, spermidinyl, putrescinyll, diaminoalkyl, pyridyl, piperidinyl, pyrrolidinyl, polyamine, amino acid, peptide, and protein;]

X<sub>1</sub> and X<sub>2</sub>, independently of one another, are selected from the group consisting of NH, O, S, alkylene, and arylene; and

L' is selected from the group consisting of alkyl, alkenylene, alkynylene, arylene, alkylene ether, and polyether[;

D is Q or a bond;

SUB B5  
Cont

A<sub>1</sub> and A<sub>2</sub>, independently of one another, are selected from the group consisting of CH<sub>2</sub>O, CH<sub>2</sub>S, CH<sub>2</sub>NH, C(O), C(NH), C(S) and (CH<sub>2</sub>)<sub>i</sub>;

X is a physiologically acceptable anion;

m, n, r, s, u, v, w and y are 0 or 1, with the proviso that when both m and n are 0 at least one of r, s, u and y is other than 0;

i, j, k, l, p and t are integers from 0 to about 100;

q is an integer from 1 to about 1000; and

a is the number of positive charge divided by the valence of the anion].

A2  
SUB B26

94. (Amended) The compound as claimed in any one of claims 1, [2,] 5, [6, 9, 11, 12, 15, 16, 20, 21, 22, 29, 32, 41, 42, 45, 46, 48, 49, 55, 56, 63, 64, 70, 71, 77, 78,] 85, [86, 87, 88,] 89, [90, 91, 92] and 93, wherein said cyclic group is a cholesteryl group.

A3  
SUB B29

101. (Amended) A composition comprising one or more compounds of any one of claims 1, 37, 38, 85, [to] 93, 95 and 97.

A3  
CONT  
SUB B29  
CONT

102. (Amended) A composition comprising one or more compounds of any one of claims 1, 37, 38, 85, [to] 93, 95 and 97 and at least one additional component selected from the group consisting of a cell, cells, a cell culture, a cell culture media, a neutral lipid, a nucleic acid, and a transfection enhancer.

A4  
SUB B30

104. (Amended) A lipid aggregate comprising one or more compounds of any one of claims 1, 37, 38, 85, [to] 93, 95 and 97.

A5

107. (Amended) A kit comprising one or more compounds of any one of claims 1, 37, 38, 85, [to] 93, 95 and 97 and at least one additional component selected from the group consisting of a cell, cells, a cell culture media, a nucleic acid, a transfection enhancer and instructions for transfecting a cell or cells.

SUB B31

108. (Amended) A method for introducing a polyanion into a cell or cells, said method comprising forming a liposome from a positively charged compound of any one of claims 1, 37, 38, 85, [to] 93, 95 and 97, contacting the liposome with a polyanion to form a positively-charged polyanion-liposome complex and incubating the complex with a cell or cells.

109. (Amended) A method for introducing a biologically active substance into a cell, said method comprising forming a liposome of a compound of any one of claims 1, 37, 38, 85, [to] 93, 95 and 97 and a biologically active substance and incubating the liposome with a cell or cell culture.